



REV	DESCRIPTION	DRAWN	DATE
		APPROVED	DATE

- NOTES:
1. ALL DESIGN, ASSEMBLY, AND HANDLING IS TO CONFORM TO STANDARD HIGH VACUUM PRACTICE.
 2. ALL VACUUM WELDS TO BE MINIMUM PENETRATION, TO MINIMIZE DISTORTION USING A MINIMUM OF FILLER ROD, AS REQUIRED, TO ASSURE LEAK TIGHTNESS.
 3. ASSEMBLY TO BE VACUUM TIGHT. NO LEAK SHALL BE DETECTABLE ON THE MOST SENSITIVE SCALE OF A HELIUM MASS SPECTROMETER LEAK DETECTOR WITH A MINIMUM SENSITIVITY OF 2×10^{-10} ATM-CC/SEC FOR HELIUM.
 4. ASSEMBLY TO BE ASSEMBLED AND PACKAGED SO AS TO ASSURE NO CONTAMINATION FROM FOREIGN MATERIALS, METAL CHIPS OR OTHER CONTAMINATES. CLEANING PROCEDURE TO BE APPROVED BY FERMILAB.
 5. SCRIBE MARKS ARE USE TO ALIGN TOP LID ITEM 2 WITH SIDE PORTS (ITEMS 4 & 5).
 6. ITEM 9 MAGNET NESTS SHALL BE WELDED LAST AFTER ALL OTHER WELDING IS COMPLETE.
 7. REMOVE THE MAGNETS INSIDE ITEM 9 MAGNET NESTS BEFORE WELDING TO LID (ITEM 2).
 8. REINSTALL MAGNETS AFTER WELDING. HAS COOLED DOWN.

9	MC-437799	BALL TARGET MAGNET REST - S.S.	4
8		NOR-CAL 4 1/2" O.D. CF FLANGE, FIXED PART #450-250N OR EQUIVALENT	1
7		2 1/2" O.D. X .065 WALL 304 S.S. TUBING	1
6	MB-23279	6" VACUUM COUPLING FLANGE	1
5	VARIAN F0600-0400-RCE	CONFLAT FLANGE 6"Ø ROTATABLE	2
4		4" O.D. X .065 WALL 304 S.S. TUBING	2
3		1/2" X 12 3/4 DIA. 304 S.S. PLATE	1
2		1/2" X 12 3/4 DIA. 304 S.S. PLATE	1
1		12" I.P.S. SCH 5 X 7 7/16" LONG, .165 WALL, 304 S.S. PIPE	1
ITEM	PART NO.	DESCRIPTION OR SIZE	QTY.

UNLESS OTHERWISE SPECIFIED			ORIGINATOR	R.REILLY	24-FEB-2010
FRACTIONS	DECIMAL	ANGLES	DRAWN	M.KIELAR	24-FEB-2010
± 1/64	± .015	± 1/2	CHECKED	R.REILLY	05-MAR-2010
1. BREAK ALL SHARP EDGES .015 MAX. 2. DO NOT SCALE DRAWING. 3. DIMENSIONS BASED UPON ASME Y14.5M-1994 4. MAX. ALL MACH. SURFACES ✓ 5. DRAWING UNITS: U.S. INCH			APPROVED	R.REILLY	05-MAR-2010
			USED ON		
			MATERIAL		
			AS NOTED		

FERMI NATIONAL ACCELERATOR LABORATORY UNITED STATES DEPARTMENT OF ENERGY			
MAIN INJECTOR MULTI-WIRE BEAM PROFILE MONITOR VACUUM BOX ASSY., 6IN CF FLANGED			
SCALE	DRAWING NUMBER	SHEET	REV
1:4	8875.115-MC-437792	1 OF 1	
CREATED WITH : Ideas12NXSeries		GROUP: ACCELERATOR MECH. SUPPT.	

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